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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/911,591	07/24/2001	Clement G. Taylor	DIVA/151CON1	4923
26291	7590 06/22/2004		EXAMINER	
MOSER, PATTERSON & SHERIDAN L.L.P.			GECKIL, MEHMET B	
FIRST FLO	SBURY AVE, STE 100 OR		ART UNIT	PAPER NUMBER A
SHREWSBU			2142	A
			DATE MAILED: 06/22/2004	(D

Please find below and/or attached an Office communication concerning this application or proceeding.



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	Application No.	Applicant(s)	9
	09/911,591	TAYLOR ET AL.	
Office Action Summary	Examiner	Art Unit	
	Mehmet B. Geckil	2142	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin or within the statutory minimum of thirty (30) day or will apply and will expire SIX (6) MONTHS from or cause the application to become ABANDONE	nely filed s will be considered timely. I the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 20 Ap	oril 2004.		
<u> </u>	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is	
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Disposition of Claims			
 4) ☐ Claim(s) 2-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 2-13 is/are allowed. 6) ☐ Claim(s) 14-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 	vn from consideration.		
Application Papers			
9) The specification is objected to by the Examine	r.		
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) \square objected to by the I	Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)	
S. Patent and Trademark Office			

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Art Unit: 2142

1. Claims 2-18 are presented for examination.

2. Claims 14-18 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are indefinite because the following language in claim 14 is not clear:

a) "which server module has associated with it a including requested data." It is not clear to Examiner what this claim language is trying to say. Applicant should not use pronouns in the claims. Also, claim language should be crystal clear and should flow. In this instance it is clear that there is a problem with the flow and clarity.

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 14-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanai et al.

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- 5. <u>Kanai et al</u> (5,862,403) taught the invention substantially as claimed including a storage server comprising a plurality of server modules or disk control units (figure 6 element 4, column 12 lines 53-58), a plurality of storage devices (2) each of the storage devices (2) coupled to exactly one of the modules (4), and a cross bar switch couples to the server modules, where the server modules accept data requests from a plurality of clients, each of the server modules issues data retrieval commands only to the storage devices coupled to each specific server module, and the cross bar switch routes data from the server modules to the clients requesting the data (see column 12 lines 11-68, column 13 line 1 et seq., e.g., see striping at column 13 line 9 et seq and column 14 line 50 et seq and see cross bar switch at column 18 line 4 et seq.)
- 6. It would have been obvious to one of ordinary skill in the network data storage server art at the time of the invention that the claimed invention differed from the teachings of Kanai et al only by a degree, e.g., Kanai et al did not state that each of the server modules contained a processor and a buffer but they taught that disk controllers or server modules were SCSI controllers and it is well known that SCSI controllers contains a processor and a buffer (examiner uses Adaptec SCSI controller in his workstation and Adaptec SCSI controller includes a processor on the SCSI controller card and buffers. Also, Adaptec scsi controllers attaché to the storage devices through a bi-directional scsi bus or channel or loop, though end of the loop is terminated) Other features are all obvious variations of the well known features of the raid controllers, highly available storage servers and networking art, e.g., Kanai et al taught MPEG video data (column 14 lines 61-68, and column 29 line 30 et seq) and fiber channel (column

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44 lines 24-29.) As to the routing feature, Kanai taught using cross bar switches therefore routing is the inherent features of the crossbar switches. It is suggested that in order to advance the prosecution of the application to a successful allowance stage in response to this office action applicant should amend the claim 14 with the features of claim 2, i.e., server controller and head-end features.

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

- 8. Claims 2-13 are allowable over the prior art record.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mehmet Geckil whose telephone number is (703) 305-

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9676. The examiner can normally be reached on Monday through Friday from 6:30 A.M. to 3:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Jack Harvey, can be reached on (703) 305-9705. The fax phone numbers for the organization where this application or proceeding is assigned are listed hereinbelow.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3800/4700. Customer service number is (703) 306-5631.

Any response to this action should be mailed to:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

or faxed to:

(703) 872-9306

Hand-delivered responses should be brought to Crystal Park II, 2021 Crystal Drive, Arlington. VA., Fourth Floor (Receptionist).

06/16/04

MEHMET B. GECKIL PRIMARY EXAMINER

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